

INDEPENDENT PEER REVIEW SYSTEM FOR STOCK ASSESSMENTS

LACK OF CONFLICT OF INTEREST STATEMENT

Background and Purpose

This program, administered by Natural Resources Consultants, Inc. ("NRC Corp."), is for the external peer review of stock assessments and related management advice for selected stocks for which the National Marine Fisheries Service (NMFS) has responsibility. Generally, review activities will take one of two forms: (a) review of an existing stock assessment product, and (b) review through active participation in a stock assessment working group or a review committee such as those NMFS has in place. It is of utmost concern that the specific input provided by the reviewers be unbiased. This means that the selected individuals will provide their expert advice free from the influence of Government managers, the fishing industry, or any other interest group. For this reason, anyone who has

- (a) received in the past (1-2) years substantial funds from industry or environmental groups with vested interests in resources for which NMFS has stewardship responsibilities,
- (b) received in the recent past substantial funds from NMFS via a sole-source contract,
- (c) participated in a previous peer-review concerning the particular stock assessment under review, or
- (d) a history of an advocacy role for a specific viewpoint,

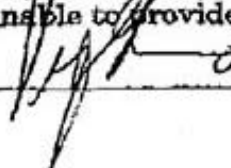
shall not be eligible to be reviewer with this program.

All reviews shall remain confidential to the extent permitted by law.

Assurance of Lack of Conflict

I, Vincent Gallucci, do not possess any said attributes that would be considered a source of conflict of interest associated with my work as a reviewer in this program. When assigned a specific review task under this program, I will notify NRC Corp. if there are any other reasons why I should be unable to provide an unbiased review.

Signed



Date

30 Oct. 2001



NATURAL RESOURCES CONSULTANTS, INC.

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MEMORANDUM

TO: Dr. Vince Gallucci

FROM: Lee Alverson

SUBJECT: LCS

DATE: October 29, 2001

In addition to the new conflict of interest statement sent to you October 26, 2001, by Natural Resources Consultants that NOAA requested you review and sign, we have also been asked by NOAA to confirm whether any reviewer participated in the Center of Independent Experts first Atlantic Large Coastal Shark Assessments Review (CIE).

I have have not X participated in previous CIE reviews.

Signed by: [Signature]

Date: 29 October, 2001

If you are unable to sign that you have not participated, please provide an explanation of your participation.

BIOGRAPHY

Vincent F. Gallucci

August 2001

Professor: School of Aquatic and Fisheries Sciences
School for Marine Affairs (SMA) and the Center for Quantitative Science (CQS)
University of WashingtonBox No. 355020.....Seattle, Washington 98195

Head: Management Assistance For Artisanal Fisheries (MAAF)
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Seattle, Washington 98195 Home Phone: 206 525 3842 & FAX: 206 517 4137
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Education: B. Sc. Physics, SUNY, Stony Brook (1963)
M.Sc. Biophysics, SUNY, Buffalo (1966)
Ph. D. Statistics and Biomathematics (1971), North Carolina State University, Raleigh

Other Experience: Commercial fisherman, Great South Bay, New York (1960-63)
Computer engineer, Boeing Aircraft Co. (1971-72)

Visiting & External Scientist Positions:

Visiting Scientist, Institute of Evolutionary Morphology and Animal Ecology, Academy of Sciences of USSR, Moscow (1975/76)
Visiting Professor, Inst. of Ecology & Demography, University of Parma, Italy (81/82)
Visiting Prof., Depart. Marine Biology and Fisheries, Univ. of Bergen, Norway (1992)
External Professor, [current] Depart. of Fisheries and Wildlife, Oregon State University,

Expertise in: Fisheries Management, Quantitative Stock Assessment and Conservation; Policy Formulation and Institutional Development for the management of marine resources for small scale fisheries, particularly in tropical, developing countries and in the western North Pacific Ocean. Foreign fleet contract negotiation. Marine biology, particularly shark population dynamics in tropical and subarctic waters, benthic populations such as crabs, clams, shrimp, etc. and tropical fish such as corvinas, elasmobranchs, and fisheries ecology in general.

Recent Exp.:

1. Evaluation of Peruvian upwelling resources under normal and El Nino-type regimes for prediction and mitigation of impacts. GTZ (Germany). (1987 - 1989).
2. USAID Stock Assessment CRSP as Principal Investigator. Costa Rica. (1984-1994).
--Carry out necessary research to develop new methodologies and software for management of multi species-multi gear gillnet corvina & related fisheries.
3. Latin American Organization for the Management of Fisheries. Costa Rica (1990)
--Teaching short courses on quantitative fisheries management in developing countries
4. Marine resource evaluation & development. UN Develop. Project. UNDP, Chile. (1992)
--Instruct short course on stock assessment and
--Evaluate status of benthic mollusc culture, e.g., scallops, mussels, gastropods, lobster.
5. Italian National Research Council (CNR). (1991).
--Estimation of fishing effort and catch from the Adriatic fleet. Sampling designs
6. Eritrean Fisheries Management.
--Development stock assessment and management plans for artisanal and foreign fleets.
--Teach short course on quantitative stock assessment for Ministry of Fisheries
7. Oman Stock Assessment and Training Project.
--Team leader for evaluation of USAID project involving pelagic and benthic species
--Direct selected research components

8. TINTP- USAID project in Nicaragua on Miskito Indian reserve. [1995-96]
 - Assist Nicaraguan management agency determine max sustainable yield for reserve stocks of spiny lobster and shrimp; carry out quantitative analyses for prospective fisheries on couch & crab; offer short courses on stock assessment;
 - Assist in the development of community based management framework to facilitate conservation and sustainable use of local resources as well as satisfy local communities of Miskito Indians.
9. Multiple projects involving shark management and research projects[1990-2001]

- Other:**
1. Organizer of short course: *Curso Intensivo en Manejo de Perquerias*, Seattle 1990
 2. Organizer of the workshop: *Diagnostica y Perspectivas de Las Pesquerias Artesanales en America Austral (Chile - Argentina)*, Puerto Montt, Chile 1994
 3. Grandfather for: *Murphya gallucii*, family EUNICIDAE, a Subantarctic polychaete
 4. Participation in N.Pacific Management Conference, Khabarovsk, Siberia 1985
 5. Participating scientist, joint US-USSR whale marking and survey in SE Alaska, 1988
 6. Consulting scientist with VNIRO (commercial fishing institute), MGY (university), Shirshova (oceanology) and NIMEZ (Acad. Sci. for Ecology and Evolution) 19976-80

- Research:**
- A. Development and application of quantitative methodology for assessment and management of aquatic resources. Formulation of appropriate management policies to encompass the social and resource-related circumstances
 - B. Biomathematics and Biometrics for applied and theoretical analysis in ecology

- Teaching:**
- | | |
|---------------|--|
| FISH/QSCI 556 | Mathematical Models in Fisheries Assessment & Conservation |
| QSCI 480 | Statistical Sampling Theory for Biological Applications |
| QSCI 482 | Statistical Analysis in Applied Research |
| SMA/FISH 580 | Fisheries Management: Political and Institutional Perspectives |
| FISH 521 | Scientific Method and the Philosophy of Science |
| FISH 513 | Sharks and Their Kin |

Selected Publications: Over 50 in refereed journals

- Campos, J.-M., Mug, M.-V., V.F. Gallucci. 2001. *Organizational structure and function for integrated coastal zone management in the tropical Gulf of Nicoya*. Proc. of the First Intern. Symp. On Geographic Information Systems in Fishery Science: 220-221
- Jameson, S.C., V.F. Gallucci. 2000. Jose A. Robleto. Nicaragua: Pacific Coast. Chapt. 33, in *Seas at the Millennium: An Environmental Evaluation*. Vol I. Europe, The Americas and West Africa. Pergamon Press: 531-543.
- Hedgepeth, J., V.F. Gallucci & J. Campos. 2000. *Hydroacoustic Estimation of Fish Abundance in the Gulf of Nicoya, Costa Rica*. Revista De Biologia Tropical [Costa Rica]. 45(2/3):371-387.
- Hedgepeth, J., V.F. Gallucci, F. O'Sullivan & R. Thorne. 1999. *Smoothed expectation-maximum analysis for hydroacoustic data analysis*. ICES J. of Marine Science. 56:36-50.
- Springborn, R., Lampakis, N. and V.F. Gallucci. 1998. *A time density model to estimate run size and entry timing in a salmon fishery*. North Amer. J. of Fisheries Management. 18: 391-405.
- Mug, M., V. F. Gallucci, H.L. Lal. 1994. *Age determination of corvina retna (Cynoscion albus Gunther) in the Gulf of Nicoya, Costa Rica, based on examination and analysis of hyaline zones, morphology and microstructure of otoliths*. Journal of Fish Biology. 45: 177-191.
- Lal, H.L., M. Mug, & V.F. Gallucci. 1993. *Management strategies in the tropical corvina retna (Cynoscion albus) in a multimesh size gillnet artisanal fishery*. International Symposium on Management Strategies for Exploited Fish Populations. Alaska Sea Grant College Program: pp 21-37.
- Ragonese, S., M. Blanchini & V.F. Gallucci. 1994. *Growth and mortality of the red shrimp (Aristaeomorpha foliacea Risso) in the Sicilian Channel*. Crustaceana 67 (3): 348 - 367

- Sullivan, P.J., H.L. Lai, V. F. Gallucci. 1990. *A catch-at-length analysis that incorporates a stochastic model of growth*. Canad. J. Fish. Aquatic Sci. 47:184-198.
- Orensanz, J.M. and V.F. Gallucci. 1988. *A comparative study of postlarval life-history schedules in four sympatric Cancer species (Decapoda)*. J. Crustacean Biology 8 (2):187-220.
- Lai, H.L. and V. F. Gallucci. 1988. *Effect of variability on estimates of cohort parameters using length-cohort analysis: with a guide to its use and misuse*. J. Du Conseil 45 (1):82-92.
- Gallucci, V.F. & Kriksunov, E. 1979. *On the effectiveness of simple management models of exploited fish populations*. Journal of Ichthyology 19 (6):1043 - 1052 [in Russian]
- Stock Assessment: Quantitative Methods and Applications for Small Scale Fisheries*. 1995. Ed.: V.F. Gallucci, Saila, S.B., D. Gustafson, B. Rothschild. CRC Press.
- Co-authored five or nine chapters:
- Saila, S. B. and V.F. Gallucci. *A Historical Perspective on the Assessment of Artisanal Tropical fisheries*.
 - Gallucci, V. F., B. Amjoum, H.L. Lai, J. Hedgepeth. *Size-Based Methods of Stock Assessment for Application to Tropical Artisanal Fisheries*.
 - Conquest, I., R. Burr, R. Donnelly, J. B. Chavarria, V. F. Gallucci. *Statistical Sampling Problems in Artisanal Fisheries*.
 - Hedgepeth, J. V. F. Gallucci, R. B. Thorne, J. Campos. *Application of Some Acoustic Methods for the Assessment of Tropical Artisanal Fisheries*.
 - Lai, H.L. V. F. Gallucci, D. Gunderson. *Age Determination in Biology: Methods and Applications to Stock Assessment*.

Recent Symposia Participation

International Symposium on Geographic Information Systems in Fisheries. January, 1999,

1. *GIS Education in modern university education*. Gallucci.
2. *Organizational structure and function for integrated coastal zone management in the tropical Gulf of Nicoya*. Campos, Mug, Gallucci.

First International Symposium on Coastal and Pelagic Sharks. February, 2000,

1. *Methodology for assessment of artisanal fisheries*. Gallucci, Chasco, Gaichas, Erzini
2. *A biogeographic shark database and analysis project for the Pacific rim*. Gallucci, Gaichas, Karp.

Puget Sound Research Conference 2001. February, 2001

1. *Sixgill sharks in Washington Waters: Research Results and Projection Ahead*. Gallucci

AAAS Annual Meeting 2001. Boston, 2002

1. *Too Many Sharks, Too Few Sea Lions and Global Climate Change: a 90 minute session*

Supplementary Publication Information

Da Silva, A. and V.F. Gallucci. 2002. *Age and growth of Atlantic blue shark: a re-analysis*. Trans. American Fisheries Soc.....in ms for submission

Director, R., V.F. Gallucci, R. Methot, 2002. *The spiny dogfish of Washington State: an analysis of management*.....in ms. for submission

Gallucci, V.F. and K. Erzini, I. Taylor, 2002. *Estimation of risk of extinction for sharks under harvest pressure on juveniles as a function of life span*. ...in ms for submission.

Quinn, T., J. V.F. Gallucci. *Artificial selection and environmental change: countervailing factors affecting the timing of spawning by coho and Chinook salmon*. Transactions of the Amer. Fisher. Society.in ms. For submission

Gallucci, V.F. 2001. *Interdisciplinary education: a case study of the role of GIS in modern education*. Proc. of the First Intern. Symp. On Geographical Information Systems in Fishery Science:

- Amjoum, B. and V.F. Gallucci. *Harvesting strategies of a multiple gillnet fishery: the Corvina reina population in the Gulf of Nicoya*. ICES J. Fisheries Management. [submitted]
- Amjoum, B. & V. Gallucci. *Indirect estimation of gillnet selectivity*. Can. J. Fish. & Aquatic Sci. submitted.
- Gallucci, V.F., Harrington, G. and T. Marsh, S. Martinez, J. Roblotto. *Analysis of the spiny lobster fisheries in Nicaragua: a case study in balancing the cultural and economic needs of an indigenous population and the economic needs of the nation*. In vis.
- Miller, M. & V.F. Gallucci. *Fisheries management education: myths and templates*. Fisheries. Journal of the American Fisheries Society, Fisheries (revised and resubmitted).
- Gallucci, V.F., Donnelly, R. and J. Campos. *Population dynamics of the Corvina Complex of fish in the Gulf of Nicoya, Costa Rica: reproduction, growth and capture fishery*.submitted

SKILLS & GLOBAL EXPERIENCE IN FISHERIES MANAGEMENT:

Technical

University teaching and research has made consultant a well-known scientist in the area of the stock assessment mathematical modeling and its application to commercial and artisanal fishing operations. Further work in the area of policy formulation and institutional development, especially in the area of natural resource conflict resolution was instrumental in resolving several international and national situations. Most of these situations are characterized by the necessity to develop alternative management pathways to avoid the conflicts that arise over the need to share limited resources amongst too many stakeholders. The consultant brings to the situation the ability to statistically analyze relevant data, to combine these analyses with mathematical models that simulate the issues, and to devise policy alternatives that synthesize the results of the unbiased analyses with local, traditional management methods. Consultant's professional activities, including:

- co-management of resources involving resource rich subpopulations and governments
- fisheries management methodologies
- statistical sampling protocols,
- stock assessment
- formulation of quantitative management policies
- special knowledge in the conservation and management of elasmobranch, especially shark populations; as well as that of benthic fish and invertebrate species.

In brief, he has professional recognition for activities in the areas of:

- ecological modeling and statistical consulting
- impacts of fishing on selected stocks [stock assessment and projection]
- possible effects of fishing on marine mammals and shark populations
- issues of the effects of by-catch
- prospects of food chain effects as upper level stocks are harvested
- benthic invertebrate and benthic fish ecology
- conflict resolutions and contract negotiations for fisheries rights.

Latin American Experience:

Consultant has experience measured in decades in tropical developing country fisheries management. Some of this experience has been in the form research activities, sometimes spread over five year periods and some in technical assistance in relatively short term activities of about a year or two in length. Long term research was conducted in the Gulf of Nicoya on the Pacific Coast of Costa Rica and in several different areas in South America: Chile, Peru and Argentina there were many multiple year projects and in Nicaragua in Central America for a year plus. In most cases, consultant generates a product that is of

generalized value and frequently original, customized to the needs of the project, of sufficient quality to be worthy of publication in the professional literature.

USSR and Russian Far East Experiences:

Nine months working for the Commercial Fishing Agency [VNIRO] in the Soviet Union, the Academy of Sciences of the USSR and the Dept. of Ichthyology of Moscow State University. Continued interactions led to joint program on Lake Baikal to study land-locked population of fur seals, with a project to follow done on Pribiloff Island seals by the consultant. Later interactions involved humpbacked whales radio tracking. Further work on the potential for future production of the Russian Far East fishery grounds for the World Bank and later yet for the Russian American Center for Data Collection. Publication of Russian language journal articles.

Middle East Experiences:

Two projects, one in the new country of Eritrea and the other in Oman-Kuwait. Both projects involved the inevitable conflict resolution between foreign large ships and artisanal fishermen. In Eritrea the contrast is between Islamic fishers and Coptic Christian management is perpetually on the verge of conflict due to the numerous and diverse traditional issues that must be resolved. Both required extensive collaborative interaction in the development of management plans.

Far East

Invited to give the inaugural presentation at the joint, Korean ecological and fisheries societies' decadal meeting in Pusan in May, 1997 and then to government ministers on *Korean Fisheries in the Twenty First Century*. He was also invited to collaborate on a research project on productivity, remediation and management of Jiaozhou Bay, a bay rich in wild and cultured stocks of shrimp and molluscs near Qingdao, China. This research will extend over period of several years and involve a joint working team of Chinese and U.S. scientists. He visited Jiaozhou Bay in May 1997, briefly, and again in February 1998 for a longer period, all at Chinese expense. He is also a participant in the World Bank - NMFS funded project for the Large Scale Ecological modeling of the Yellow Sea, a joint Chinese - Korean project, involving data collection, data analysis and model development, for both oceanography and fisheries.

Languages and Short Courses:

-- Worked in several different languages over the years. From living in the USSR in the 1970s for 3/4 of year he can work in Russian; from many years in Latin America consultant can work in Spanish, accented by Italian, where he is an occasional consultant and visitor for professional purposes.

-- Frequently asked to teach focused short courses in developing countries customized for specific needs. In some cases courses are technical, mathematical and computerized, with homework, to develop skills. In other cases they are technical, interactive, negotiation practice oriented to develop skills in this area. In the stock assessment mathematical cases, computer program packages are left behind to facilitate analyses in the future. Consultant's book as primary editor and primary author on the quantitative management of small scale fisheries is in second printing and is being translated to Spanish.

Concluding Comments:

Much of the above consulting was done for international agencies such as UNDP, UNESCO, FAO, GIZ and USAID, domestic government agencies and private industry. Consultant brings to projects experience in a variety of ecological environments, quantitative experience in statistical and modeling activities for stock assessment and wide experience in the political and sociological aspects for the development of environmental management strategies. In recent years, he has been asked to mediate essentially political environmental conflict situations. He has also been a consultant to several developing countries on their negotiations with fishing companies for fishing in their EEZs.

Generally, most of the above focus on the use of the sea for the generation of food or for the deposit of waste. This has led to recent collaborative efforts via the mechanism of food security, with organizations that focus on international security, especially with respect to developing countries.

